

TA-Alutherm

Double-sided coated aluminium sheet

Product Data Sheet

TA-Alutherm is an aluminium sheet coated on both sides that impresses with its homogeneous and uniform surface.

The guaranteed emissivity (ϵ) for TA-Alutherm is ≥ 0.86 . This is significantly higher than for conventional aluminium (0.05 - 0.13). With the same insulation thickness, this results in a lower surface temperature in thermal insulation. Thinner insulation thicknesses can be used in cold insulation. This means that insulation systems can be kept free of condensation.

TA-Alutherm also meets the requirements of the corrosion resistance index 3 and UV resistance category R_{UV} 5, making it suitable for use in extremely demanding environments. The durable FEVE coating ensures a surface that is particularly easy to clean, from which even stubborn dirt can be easily removed.

Thanks to its excellent workability, TA-Alutherm is ideal for industrial applications with high technical and quality requirements. TA-Alutherm has been tested on all standard universal cutting machines and can also be processed on laser cutting machines without any problems, even without laser film. Furthermore, TA-Alutherm can be easily profiled.

Technical Data

Both sides	Wet paint coating (two-layer paint finish), RAL 7047
Paint	Front: 30 μm wet paint coating Back: 30 μm wet paint coating
Processing	Can be bent with T1 – T1.5, without cracking on the inside
Protective film	According to customer requirements
Gloss	Shiny 70 – 80 GE
Quality	According to ECCA; EN 1396:2023
Material	ENAW 3105 H44 According to DIN 4140 suitable for use in marine environments
Corrosion protection class	3 according to EN 1396:2023
Emissivity (ϵ)	≥ 0.86 (Test report FIW München DI3.1-2025/01)
Wastewater Regulation	No special measures required according to ATV-DVWK-M 153
Recycling	Coloured aluminium can be 100% recycled.

Composition in % by mass (wt.), remainder AL

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other elements
0.60	0.70	0.30	0.3 – 0.8	0.2 – 0.8	-	0.40	0.10	0.15

Minimum values for mechanical properties DIN

Semi-finished product type	Thickness	Tensile Strength Rm N/mm ²	0,2-Border Rm N/mm ²	Elongation at break A %	Strength HB
Band	0.6 – 1.2	150 – 200	120	4	47

The insulating varnish shows stable resistance when exposed to dry heat of up to 200 °C for 8 hours, with a slight darkening of the colour tone being observed.

Scope of application:

Suitable for use in construction, insulation technology, and sheet metal processing - especially for cladding.

Tacke + Lindemann GmbH

Beratgerstraße 31-33 | 44149 Dortmund

Tel +49 (0)231 17 77 7-0
 Fax +49 (0)231 17 77 7-50
 E-Mail info@tacke-lindemann.de
 Web www.tacke-lindemann.de

Disclaimer

Our products are based on careful research and reflect the current state of the art. The data and information are provided to the best of our knowledge, but without guarantee. All values given are average values, not maximum or minimum values, and do not constitute a guarantee. Changes and deviations are possible; we expressly reserve the right to make technical adjustments. It is the responsibility of the user to independently check the suitability of the product for the respective application before use. We accept no liability for errors, inaccuracies, omissions or changes. Furthermore, the applicable regulations, rules and DIN standards must be observed. The use of texts, images and drawings, even in part, is not permitted without consent. Our General Terms and Conditions (GTC) apply exclusively.